Base Load Power Hub (BLPH)

INSTRUMENT AND VALVES DATA SHEETS

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ISSUE FOR REVIEW (IFR)
02	ACCEPTED FOR CONSTRUCTION (AFC)
03	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

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Tags numbers list

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1	25-FV-031	2400583	123A90-DDL-PR-PID-80015	5
2	25-FV-032	2400584	123A90-DDL-PR-PID-80016	5
3	25-FV-033	2400585	123A90-DDL-PR-PID-80017	5
4	25-FV-034	2400586	123A90-DDL-PR-PID-80018	5
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7	25-PV-035	2400589	123A90-DDL-PR-PID-80015	6
8	25-PV-037	2400590	123A90-DDL-PR-PID-80016	6
9	25-PV-040	2400591	123A90-DDL-PR-PID-80017	6
10	25-PV-043	2400592	123A90-DDL-PR-PID-80018	6
11	25-PV-046	2400593	123A90-DDL-PR-PID-80019	6
12	25-PV-049	2400594	123A90-DDL-PR-PID-80020	6
13	25-PV-055A	2400595	123A90-DDL-PR-PID-80014	7
14	64-PV-031A	2400597	123A90-DDL-PR-PID-80027	8
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Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	10	49	Q.ty	6
2	Valve tag / S.No	25-FV-031÷034/036/038 / 2400583 ÷ 2400588	50	Valve Service	NITROGEN FROM NITROGEN SYSTEM (A-64000) TO HYDROGEN STORAGE VESSEL (V-25001A÷F)

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1"	
4	Schedule / Thickness	40	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	40	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	1/4"	Inch
16	CV / Characteristics	0.85 / Equal%	
17	Body Size	1"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	300#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	13	mm
24	Shut-off Direction	Direct	
25	Leakage Class	VI - IEC 60534-4	
26	Shut-off pressure	40	bar g

MATERIALS

55	Body Material	A351 CF3M
56	Bonnet Material	A479 316L
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L+PTFE
60	Seat Material	A479 316L
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	PTFE
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	15-30 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)	N.4	
N.2		N.5	
N.3		N.6	
		N.7	

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Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	**20**	49	Q.ty	6
2	Valve tag / S.No	**25-PV-035/037/040/043/046/049 / 2400589 ÷ 2400594**	50	Valve Service	HYDROGEN FROM STORAGE VESSEL (V-25001A÷F) TO HYDROGEN VENT HEADER

PIPING AND DESIGN CONDITIONS

		PIPING			***AMBIENCE AND DESIGN CONDITIONS***	
3	Piping Size / Ext.Diam	3"	51	Inlet / Outlet Design Pressure	40	bar g
4	Schedule / Thickness	10S	52	Inlet / Outlet Design Temperature	80	°C
5	Pipe Insulation	No	53	Tmin / Tmax	-8.4 / +25	°C
6	Installation Location	Outdoor	54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

		VALVE CHARACTERISTICS			***MATERIALS***	
7	Valve Model	CV-8407	55	Body Material	A351 CF3M	
8	Valve Type	Globe	56	Bonnet Material	A479 316L	
9	Valve Layout	Straight	57	Boltings	A193 B8M Cl. 2 / A194 8M	
10	Bonnet type	Bolted	58	Bellows Material	-	
11	Guiding Type	Top Guided	59	Plug / Vane Material	A479 316L+PTFE	
12	No.Ports	1	60	Seat Material	A479 316L	
13	Flow direction	to Open	61	Cage Material	-	
14	Trim Type	Contoured Plug	62	Guide Material	-	
15	Port Size	1" Inch	63	Stem Material	A 479 316L	
16	CV / Characteristics	13 / Equal%	64	VE-CO LT Material	-	
			65	Seating Type	Metallic	
17	Body Size	2"	66	Balancing Material	-	
18	Rating Standard	ASME B16.34			***PACKING***	
19	Pressure Class	300#	67	Packing Material	GRAPHITE - VF1	
20	End Connection Standard	ASME B16.5	68	Live Loading	-	
21	End Connection Type	RF	69	Stem Flushing	-	
22	End Connection Finishing	-			***DEVICES***	
			70	Inlet Device	-	
23	Stroke	25 mm	71	Inlet Device Size	-	
24	Shut-off Direction	Direct	72	Outlet Device	-	
25	Leakage Class	VI - IEC 60534-4	73	Outlet Device Size	-	
26	Shut-off pressure	40 bar g	74	Body Heating	-	

ACTUATOR AND ACCESSORIES

		ACTUATOR			***FILTER REGULATOR***	
27	Fail Position	Closed	75	Fr. Model	FR04411S00SSNB2	
28	Actuation Type / Model	Pneumatic Diaphragm	76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel	
29	Actuator Action	Reverse			***BOOSTER***	
30	Actuator Size	SD13R	77	Booster Model	-	
31	Spring Range	20-44 psi	78	Pn.Conn. / Body Material	-	
32	Supply	50- psi			***SOLENOID VALVE***	
33	Design Supply	11 barg	79	SOV Model	-	
34	Handwheel	-	80	Body Material	-	
35	Mechanical Stop	-	81	Prot. Class / El. Classif.	-	
36	Throttling Time	<15 s	82	El.Conn. / Pn.Conn.	-	
37	Quick Stroking Time	- s	83	Supply	-	
38	Yoke Material	CS	84	Power Consumption	-	
39	Pneumatic Tubing Material	AISI 316			***PNEUMATIC VALVE***	
40	Pneumatic Fittings	AISI 316 Double Ferrule	85	Pneumatic Discharge Model	-	
41	Pneumatic Connection Size	1/4" NPT-F	86	Pn.Conn. / Body Material	-	
					LOCK UP VALVE	
		POSITIONER	87	Lock Up Model	-	
42	Positioner Model	TISSIN TS900	88	Pn.Conn. / Body Material	-	
43	Type	Smart Digital			***LIMIT SWITCH***	
44	Input Signal / Protocol	4-20 mA HART	89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU	
45	Fail Safety	Fail safe	90	Type	SPDT	
46	Output Signal	4-20 mA	91	Contact Type	-	
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6	92	Encl.Material	316SS	
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F	93	El.Connection	M20x1,5	
			94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1	

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)
N.2	HYDROGEN SERVICE - PACKING ISO 15848-1
N.3	
N.4	
N.5	
N.6	
N.7	

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Quotation Ref./Job Ref.: OV2301646/CV2400221

Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	**30**	49	Q.ty	1
2	Valve tag / S.No	**25-PV-055A / 2400595**	50	Valve Service	HYDROGEN FROM STORAGE VESSEL TO FUEL CELL PACKAGE

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1 1/2"	
4	Schedule / Thickness	40	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	40	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	1"	Inch
16	CV / Characteristics	13 / Equal%	
17	Body Size	1 1/2"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	300#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	20	mm
24	Shut-off Direction	Direct	
25	Leakage Class	VI - IEC 60534-4	
26	Shut-off pressure	40	bar g

MATERIALS

55	Body Material	A351 CF3M
56	Bonnet Material	A479 316L
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L+PTFE
60	Seat Material	A479 316L
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	GRAPHITE - VF1
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	20-44 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)	N.4	
N.2	HYDROGEN SERVICE - PACKING ISO 15848-1	N.5	
N.3		N.6	
		N.7	

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Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	**40**	49	Q.ty	2
2	Valve tag / S.No	**64-PV-031A/B / 2400597 ÷ 2400598**	50	Valve Service	NITROGEN FROM NITROGEN SYSTEM (A-64000) TO HEADER

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1"	
4	Schedule / Thickness	80	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	10	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	3/8"	Inch
16	CV / Characteristics	1.9 / Equal%	
17	Body Size	1"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	150#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	13	mm
24	Shut-off Direction	Direct	
25	Leakage Class	V - IEC 60534-4	
26	Shut-off pressure	10	bar g

MATERIALS

55	Body Material	A350 LF2
56	Bonnet Material	A350 LF2
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L + CoCr-A
60	Seat Material	A479 316L + CoCr-A
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	PTFE
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	15-30 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)	N.4	
N.2		N.5	
N.3		N.6	
		N.7	

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Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 3 - 04/06/2024 - 0

Final Installation: NL

1	Item	**50**	49	Q.ty	1
2	Valve tag / S.No	**25-PV-055B / 2400596**	50	Valve Service	HYDROGEN FROM STORAGE VESSEL TO FUEL CELL PACKAGE

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1 1/2"	
4	Schedule / Thickness	40	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	40	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	5/32"	Inch
16	CV / Characteristics	0.45 / Equal%	
17	Body Size	1 1/2"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	300#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	13	mm
24	Shut-off Direction	Direct	
25	Leakage Class	VI - IEC 60534-4	
26	Shut-off pressure	40	bar g

MATERIALS

55	Body Material	A351 CF3M
56	Bonnet Material	A479 316L
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L+PTFE
60	Seat Material	A479 316L
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	GRAPHITE - VF1
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	20-44 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)
N.2	HYDROGEN SERVICE - PACKING ISO 15848-1
N.3	
N.4	
N.5	
N.6	
N.7	